

**AMENDMENTS**

Claims 1-120 (canceled).

Please add the following new claims.

121. (New) A method for treating a substrate comprising the steps of:

(a) contacting the substrate with a first aqueous solution comprising a metal salt solution, said metal salt selected from the group consisting of silver, titanium, zinc, magnesium, gold, platinum, vanadium, cerium and potassium or combinations thereof; and

(b) contacting the substrate with a second aqueous solution comprising an oxidizing agent solution, wherein said oxidizing agent is sodium hydroxide and wherein said first and second solutions are contacted with the substrate for a sufficient time to stain the substrate.

122. (New) The method of claim 121, wherein the second aqueous solution further comprises tannic acid.

123. (New) The method of claim 121, wherein the metal salt is a silver salt.

124. (New) The method of claim 121, wherein the metal salt is a titanium salt.

125. (New) The method of claim 121, wherein the metal salt is a zinc salt.

126. (New) The method of claim 121, wherein the metal salt is a magnesium salt.

127. (New) The method of claim 121, wherein the metal salt is a gold salt.

128. (New) The method of claim 121, wherein the metal salt is a platinum salt.

129. (New) The method of claim 121, wherein the metal salt is a vanadium salt.

130. (New) The method of claim 121, wherein the metal salt is a cerium salt.

131. (New) The method of claim 121, wherein the metal salt is a potassium salt.

132. (New) The method of claim 121, wherein the metal salt is selected from the group consisting of sulfates, chlorides, perchlorates, acetates, nitrates, permanganates, thiosulfates, and oxides, and combinations.

133. (New) The method of claim 121, wherein the metal salt is selected from the group consisting of silver sulfate, silver perchlorate, silver nitrate, silver chloride, zinc perchlorate, zinc sulfate, zinc peroxide, magnesium thiosulfate, magnesium nitrate, manganese (II) chloride, titanium III sulfate, titanium hydride, cerium (III) perchlorate, titanium (IV) chloride, titanium (II) sulfate, cerium nitrate, and cerium (III) perchlorate, and combinations thereof.

134. (New) The method of claim 121, wherein the metal salt solution is at a concentration between about 0.001% and about 20%.

135. (New) The method of claim 121, wherein the metal salt solution is at a concentration between about 0.025% and about 8%.

136. (New) The method of claim 121, wherein the metal salt solution is a silver nitrate solution.

137. (New) The method of claim 121, wherein the metal salt solution is an iron (II) sulfate and silver nitrate solution.

138. (New) The method of claim 121, wherein the substrate is wood or masonry.

139. (New) The method of claim 138, wherein the substrate is wood.

140. (New) The method of claim 138, wherein the substrate is masonry.

141. (New) A method for treating a substrate comprising the steps of:

(a) contacting the substrate with a first aqueous solution consisting of a metal salt solution, said metal salt selected from the group consisting of silver, titanium, zinc, magnesium, gold, platinum, vanadium, cerium and potassium, or combinations thereof; and

(b) contacting the substrate with a second aqueous solution consisting of an oxidizing agent solution, wherein said oxidizing agent is sodium hydroxide and wherein said first and second solutions are contacted with the substrate for a sufficient time to stain the substrate.

142. (New) The method of claim 141, wherein the metal salt is a silver salt.

143. (New) The method of claim 141, wherein the metal salt is a titanium salt.

144. (New) The method of claim 141, wherein the metal salt is a zinc salt.

145. (New) The method of claim 141, wherein the metal salt is a magnesium salt.

146. (New) The method of claim 141, wherein the metal salt is a gold salt.

147. (New) The method of claim 141, wherein the metal salt is a platinum salt.

148. (New) The method of claim 141, wherein the metal salt is a vanadium salt.

149. (New) The method of claim 141, wherein the metal salt is a cerium salt.

150. (New) The method of claim 141, wherein the metal salt is a potassium salt.

151. (New) The method of claim 141, wherein the metal salt is selected from the group consisting of sulfates, chlorides, perchlorates, acetates, nitrates, permanganates, thiosulfates, and oxides, and combinations.

152. (New) The method of claim 141, wherein the metal salt is selected from the group consisting of silver sulfate, silver perchlorate, silver nitrate, silver chloride, zinc perchlorate, zinc sulfate, zinc peroxide, magnesium thiosulfate, magnesium nitrate, manganese (II) chloride, titanium III sulfate, titanium hydride, cerium (III) perchlorate, titanium (IV) chloride, titanium (II) sulfate, cerium nitrate, and cerium (III) perchlorate, and combinations thereof.

153. (New) The method of claim 141, wherein the metal salt solution is at a concentration between about 0.001% and about 20%.

154. (New) The method of claim 141, wherein the metal salt solution is at a concentration between about 0.025% and about 8%.
155. (New) The method of claim 141, wherein the metal salt solution is a silver nitrate solution.
156. (New) The method of claim 141, wherein the substrate is wood or masonry.
157. (New) The method of claim 156, wherein the substrate is wood.
158. (New) The method of claim 156, wherein the substrate is masonry.
159. (New) A method for treating a substrate consisting of:
- (a) contacting the substrate with a first aqueous solution comprising a metal salt solution, said metal salt selected from the group consisting of silver, titanium, zinc, magnesium, gold, platinum, vanadium, cerium and potassium, or combinations thereof; and
  - (b) contacting the substrate with a second aqueous solution comprising an oxidizing agent solution, wherein said oxidizing agent is sodium hydroxide and wherein said first and second solutions are contacted with the substrate for a sufficient time to stain the substrate.
160. (New) The method of claim 159, wherein the second aqueous solution further comprises tannic acid.
161. (New) The method of claim 159, wherein the metal salt is a silver salt.
162. (New) The method of claim 159, wherein the metal salt is a titanium salt.
163. (New) The method of claim 159, wherein the metal salt is a zinc salt.
164. (New) The method of claim 159, wherein the metal salt is a magnesium salt.
165. (New) The method of claim 159, wherein the metal salt is a gold salt.
166. (New) The method of claim 159, wherein the metal salt is a platinum salt.

167. (New) The method of claim 159, wherein the metal salt is a vanadium salt.
168. (New) The method of claim 159, wherein the metal salt is a cerium salt.
169. (New) The method of claim 159, wherein the metal salt is a potassium salt.
170. (New) The method of claim 159, wherein the metal salt is selected from the group consisting of sulfates, chlorides, perchlorates, acetates, nitrates, permanganates, thiosulfates, and oxides, and combinations.
171. (New) The method of claim 159, wherein the metal salt is selected from the group consisting of silver sulfate, silver perchlorate, silver nitrate, silver chloride, zinc perchlorate, zinc sulfate, zinc peroxide, magnesium thiosulfate, magnesium nitrate, manganese (II) chloride, titanium III sulfate, titanium hydride, cerium (III) perchlorate, titanium (IV) chloride, titanium (II) sulfate, cerium nitrate, and cerium (III) perchlorate, and combinations thereof.
172. (New) The method of claim 159, wherein the metal salt solution is at a concentration between about 0.001% and about 20%.
173. (New) The method of claim 159, wherein the metal salt solution is at a concentration between about 0.025% and about 8%.
174. (New) The method of claim 159, wherein the metal salt solution is a silver nitrate solution.
175. (New) The method of claim 159, wherein the metal salt solution is an iron (II) sulfate and silver nitrate solution.
176. (New) The method of claim 159, wherein the substrate is wood or masonry.
177. (New) The method of claim 176, wherein the substrate is wood.
178. (New) The method of claim 176, wherein the substrate is masonry.
179. (New) A method for treating a wood substrate comprising the steps of:

(a) contacting the wood substrate with a first aqueous solution comprising a metal salt solution, said metal salt selected from the group consisting of silver, titanium, zinc, magnesium, gold, platinum, vanadium, cerium and potassium, or combinations thereof; and

(b) contacting the wood substrate with a second aqueous solution comprising an oxidizing agent solution, wherein said oxidizing agent is a peroxide and wherein said first and second solutions are contacted with the substrate for a sufficient time to stain the substrate.

180. (New) The method of claim 179, wherein the oxidizing agent is selected from hydrogen peroxide, sodium peroxide, zinc peroxide, calcium peroxide, barium peroxide and lithium peroxide.

181. (New) The method of claim 179, wherein the second aqueous solution further comprises tannic acid.

182. (New) The method of claim 179, wherein the metal salt is a silver salt.

183. (New) The method of claim 179, wherein the metal salt is a titanium salt.

184. (New) The method of claim 179, wherein the metal salt is a zinc salt.

185. (New) The method of claim 179, wherein the metal salt is a magnesium salt.

186. (New) The method of claim 179, wherein the metal salt is a gold salt.

187. (New) The method of claim 179, wherein the metal salt is a platinum salt.

188. (New) The method of claim 179, wherein the metal salt is a vanadium salt.

189. (New) The method of claim 179, wherein the metal salt is a cerium salt.

190. (New) The method of claim 179, wherein the metal salt is a potassium salt.

191. (New) The method of claim 179, wherein the metal salt is selected from the group consisting of sulfates, chlorides, perchlorates, acetates, nitrates, permanganates, thiosulfates, and oxides, and combinations.

192. (New) The method of claim 179, wherein the metal salt is selected from the group consisting of silver sulfate, silver perchlorate, silver nitrate, silver chloride, zinc perchlorate, zinc sulfate, zinc peroxide, magnesium thiosulfate, magnesium nitrate, manganese (II) chloride, titanium III sulfate, titanium hydride, cerium (III) perchlorate, titanium (IV) chloride, titanium (II) sulfate, cerium nitrate, and cerium (III) perchlorate, and combinations thereof.

193. (New) The method of claim 179, wherein the metal salt solution is at a concentration between about 0.001% and about 20%.

194. (New) The method of claim 179, wherein the metal salt solution is at a concentration between about 0.025% and about 8%.

195. (New) The method of claim 179, wherein the metal salt solution is a silver nitrate solution.

196. (New) The method of claim 179, wherein the metal salt solution is an iron (II) sulfate and silver nitrate solution.

197. (New) The method of claim 179, wherein the substrate is wood or masonry.

198. (New) The method of claim 197, wherein the substrate is wood.

199. (New) The method of claim 197, wherein the substrate is masonry.

200. (New) A method for treating a substrate comprising the steps of:

(a) contacting the substrate with a first aqueous solution consisting of a metal salt solution, said metal salt selected from the group consisting of silver, titanium, zinc, magnesium, gold, platinum, vanadium, cerium and potassium, or combinations thereof; and

(b) contacting the substrate with a second aqueous solution consisting of an oxidizing agent solution, wherein said oxidizing agent is a peroxide and wherein said first and second solutions are contacted with the substrate for a sufficient time to stain the substrate.

201. (New) The method of claim 200, wherein the oxidizing agent is selected from hydrogen peroxide, sodium peroxide, zinc peroxide, calcium peroxide, barium peroxide and lithium peroxide.

202. (New) The method of claim 200, wherein the metal salt is a silver salt.

203. (New) The method of claim 200, wherein the metal salt is a titanium salt.

204. (New) The method of claim 200, wherein the metal salt is a zinc salt.

205. (New) The method of claim 200, wherein the metal salt is a magnesium salt.

206. (New) The method of claim 200, wherein the metal salt is a gold salt.

207. (New) The method of claim 200, wherein the metal salt is a platinum salt.

208. (New) The method of claim 200, wherein the metal salt is a vanadium salt.

209. (New) The method of claim 200, wherein the metal salt is a cerium salt.

210. (New) The method of claim 200, wherein the metal salt is a potassium salt.

211. (New) The method of claim 200, wherein the metal salt is selected from the group consisting of sulfates, chlorides, perchlorates, acetates, nitrates, permanganates, thiosulfates, and oxides, and combinations.

212. (New) The method of claim 200, wherein the metal salt is selected from the group consisting of silver sulfate, silver perchlorate, silver nitrate, silver chloride, zinc perchlorate, zinc sulfate, zinc peroxide, magnesium thiosulfate, magnesium nitrate, manganese (II) chloride, titanium III sulfate, titanium hydride, cerium (III) perchlorate, titanium (IV) chloride, titanium (II) sulfate, cerium nitrate, and cerium (III) perchlorate, and combinations thereof.

213. (New) The method of claim 200, wherein the metal salt solution is at a concentration between about 0.001% and about 20%.



214. (New) The method of claim 200, wherein the metal salt solution is at a concentration between about 0.025% and about 8%.

215. (New) The method of claim 200, wherein the metal salt solution is a silver nitrate solution.

216. (New) The method of claim 200, wherein the substrate is wood or masonry.

217. (New) The method of claim 216, wherein the substrate is wood.

218. (New) The method of claim 216, wherein the substrate is masonry.

219. (New) A method for treating a wood substrate consisting of:

(a) contacting the wood substrate with a first aqueous solution comprising a metal salt solution, said metal salt selected from the group consisting of silver, titanium, zinc, magnesium, gold, platinum, vanadium, cerium and potassium, or combinations thereof; and

(b) contacting the wood substrate with a second aqueous solution comprising an oxidizing agent solution, wherein said oxidizing agent is a peroxide and wherein said first and second solutions are contacted with the substrate for a sufficient time to stain the substrate.

220. (New) The method of claim 219, wherein the oxidizing agent is selected from hydrogen peroxide, sodium peroxide, zinc peroxide, calcium peroxide, barium peroxide and lithium peroxide.

221. (New) The method of claim 219, wherein the second aqueous solution further comprises tannic acid.

222. (New) The method of claim 219, wherein the metal salt is a silver salt.

223. (New) The method of claim 219, wherein the metal salt is a titanium salt.

224. (New) The method of claim 219, wherein the metal salt is a zinc salt.

225. (New) The method of claim 219, wherein the metal salt is a magnesium salt.

226. (New) The method of claim 219, wherein the metal salt is a gold salt.
227. (New) The method of claim 219, wherein the metal salt is a platinum salt.
228. (New) The method of claim 219, wherein the metal salt is a vanadium salt.
229. (New) The method of claim 219, wherein the metal salt is a cerium salt.
230. (New) The method of claim 219, wherein the metal salt is a potassium salt.
231. (New) The method of claim 219, wherein the metal salt is selected from the group consisting of sulfates, chlorides, perchlorates, acetates, nitrates, permanganates, thiosulfates, and oxides, and combinations.
232. (New) The method of claim 219, wherein the metal salt is selected from the group consisting of silver sulfate, silver perchlorate, silver nitrate, silver chloride, zinc perchlorate, zinc sulfate, zinc peroxide, magnesium thiosulfate, magnesium nitrate, manganese (II) chloride, titanium III sulfate, titanium hydride, cerium (III) perchlorate, titanium (IV) chloride, titanium (II) sulfate, cerium nitrate, and cerium (III) perchlorate, and combinations thereof.
233. (New) The method of claim 219, wherein the metal salt solution is at a concentration between about 0.001% and about 20%.
234. (New) The method of claim 219, wherein the metal salt solution is at a concentration between about 0.025% and about 8%.
235. (New) The method of claim 219, wherein the metal salt solution is a silver nitrate solution.
236. (New) The method of claim 219, wherein the metal salt solution is an iron (II) sulfate and silver nitrate solution.
237. (New) The method of claim 219, wherein the substrate is wood or masonry.
238. (New) The method of claim 237, wherein the substrate is wood.

239. (New) The method of claim 237, wherein the substrate is masonry.